

Wireless E-911 Funding

Steve Marzolf, E-911 Coordinator Virginia Division of Public Safety Communications www.va911.org

Current Legislation



- Establishes a \$0.75 surcharge on wireless telephone bills.
- Establishes a Wireless E-911 Services Board of 14 members.
- Allowed PSAPs and CMRS Providers to seek "reasonable" and "direct" costs for the provision of wireless E-911 Phase I and II.
- Requires a "true-up" process.
- Gave responsibility for wireline funding to Wireless Board.

Local Issue



- Provision of F-911 is a local issue.
- ◆ 112 localities provide wireline E-911.
- ◆ 24 localities do not have wireline E-911.
- Wireless Board and DPSC provide funding and technical support when asked.
- ◆ Timing, priority, and effort must come from the locality.

Current Legislation (cont.)



- Established deadlines for the provision of wireline E-911 and wireless 911.
- Established a subcommittee to review CMRS submissions (FIOA exemption).
- Created the Division of Public Safety Communications.
- Capped the wireline surcharge at \$3.00.
- Requires yearly reporting to General Assembly.

VA General Assembly



- Prior to 1998, only legislation is wireline surcharge, DCJS training, Good Samaritan Act.
- ♦ 1998 House Bill1331 establishes the Wireless Fund and creates the first Board.
- 1998 House Joint Resolution 215 directed the Crime Commission to study E-911.
- 1999 Budget amendment directs 9 jurisdictions to begin taking wireless 9-1-1 calls.
- ◆ 2000 Senate Bill 148 restructures program.
- ◆ 2001 HB1661 exempted four from requirement.

Current Legislation (cont.)



- Localities meeting two requirements may be excluded from requirement to implement E-911 by July 1, 2003:
 - 50% or more of the locality's geographic area is unable to receive wireless telephone service; and
 - No taxes are imposed for E-911 services pursuant to §58-3813.1.

Board Membership

- N. Jerry Simonoff Chairman
- Jim McDonnell Vice-Chairman PSAP Rep.
- David Vo Moll Treasurer
- Tom Hanson PSAP Rep.
- Terry Hall EMS Rep.
- Melvin Breeden Local Financial Officer Rep.
- Chief Henry Stanley Police Chief Rep.

- Julian Taliaferro Fire Chief Rep.
- Sheriff Ron Oakes Sheriff Rep.
- Captain John Furlough State Police Rep.
- Ralph Jones Robert Woltz
- LEC Rep. Edward Coglio PCS Rep.
- Bob Layman

Wireline F-911



- Board to provide funding and assistance to localities not wireline E-911 as on July 1, 2000.
- ◆ 37 localities meet this requirement.
- ◆ \$9.8 million was appropriated in FY2003.
- Funding is only available for FY2003.

Overall Accomplishments



Provided the following funding:

FY	PSAPs	Localities Served	PSAP Funding	Wireless Provider Funding
2000	28	23	\$4,316,115	\$396,144
2001	40	50	\$7,047,639	\$1,862,736
2002	83	92	\$14,303,163	\$2,375,186
2003	71	82	\$11,795,463	\$11,164,557

- ♦ Have received 20 new FY2003 requests.
- Have received 72 requests for FY2004.

Non-verified E-911



- Address is not verified against a Master Street Address Guide (MSAG) when entered into the ALI database.
- Address or rural route information is displayed to the call taker.
- Since non-verified service does not provide all of the benefits of E-911, the Board declared it to not be true E-911.
- Decision provides localities with access to funding, but puts on requirement to implement.

Overall Accomplishments



- Drafted guidelines for wireline grants and have awarded \$7.9 million out of \$9.8 million appropriated.
- Conducted wireless provider status reviews.
- Provided \$9.8 million to the Virginia Base Mapping Initiative.
- Currently processing FY2002 True-up

Wireline Funding



Allowable Cost

- Mapping
- Addressing
- Street signage
- Customer premise equipment (CPE)
- · Initial network costs

Disallowed Costs

- Recurring E-911 costs
- Voice logging equipment
- Computer-aided dispatch
- Buildings and furnishings
- Radio systems

Ability to Pay



- Board looked at formulas based on:
 - Composite Index
 - Surcharge Based
- Board selected the composite index because it was an existing method for determining ability to pay.
- One problem with the index was that some local shares were too high.

Wireless 9-1-1 Problem



- ♦ Wireline enhanced 9-1-1 provides the address of the calling party.
- Wireless 9-1-1 provides no information on the caller.
- ♦ The percentage of wireless calls is increasing (over 50% of 9-1-1 in urban areas).

Capped Composite



- To address the shortcomings of the composite index method, the Board developed the "Capped Composite" method.
- ◆ "Capped Composite" method limits the local share of funding to that which can be generated with a \$1.50 surcharge for a period of 24 months.

FCC Requirements



- ◆ Complete all calls to 9-1-1 regardless of billing.
- PSAP must make a request to the CMRS provider.
- ◆ PSAP must be able to use the data.
- ◆ A cost recovery mechanism must be in place for the PSAP.

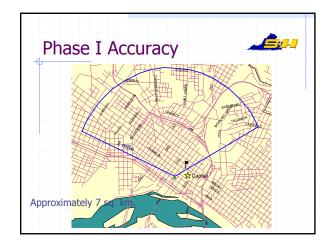
Wireline E-911 Status P-1-7 Service Levele E917 Unverfied ANI Brance Norre

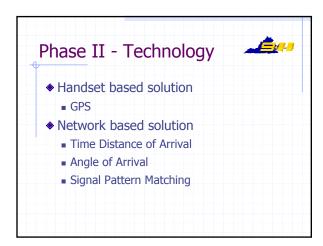
Virginia Requirement

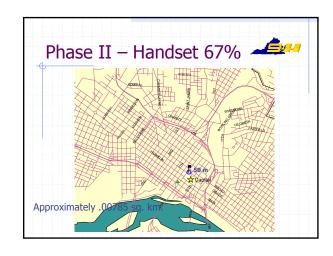


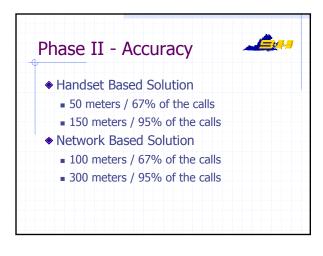
- Code of Virginia requires PSAP be responsible for wireless 9-1-1 by:
 - July 1, 2002 if the locality had E-911 as of July 1, 2000, or:
 - July 1, 2003 for all other localities.
- Calls are still going to the State Police in 54 localities. Of these:
 - 25 have until July 1, 2003 to deploy; and
 - 15 have sought and extension of time from the Wireless E-911 Services Board.

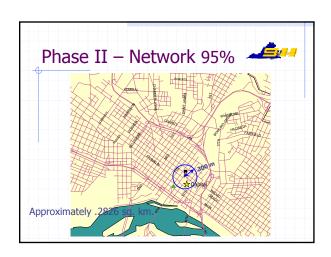
Wireless Enhanced 9-1-1 Phase 0 Locality taking the call typically on a dedicated seven-digit line. Phase I Call is routed through the 9-1-1 system based on the cell site/sector receiving the call and provides the cell site information and call back number. Phase II Same routing as Phase I, but latitude/longitude is provided within acceptable error rate.

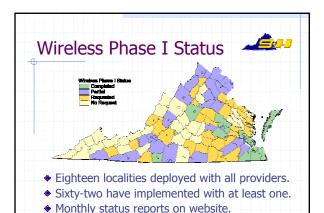








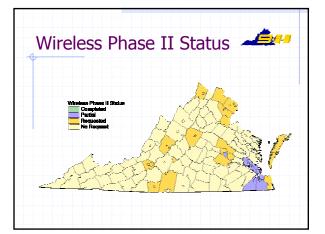




Wireless Funding (cont.)



- Dedicated equipment
- 100% funded by Board.
- Includes CPE wireless upgrades, call counting software, trunking costs, mapping systems, etc.
- Shared equipment/personnel
 - Proportionally funded by the Board based on the percentage of wireless E-911 calls to total calls in the PSAP (10.42% minimum and \$30,000 minimum for net personnel funding).



Wireless Funding (cont.)



- Mapping data including photography, centerline and addressing data.
- Fund PSAP personnel for the mapping function to the wireless percentage (same as other PSAP personnel).
- ◆ Fund addressing equipment (GPS receiver) to the wireless percentage.

Wireless Funding



- No funding available for Phase 0 and must have wireline E-911.
- No secondary PSAPs.
- All "reasonable and direct" costs are funding by the Board.
- Must commit to and select an implementation date before being eligible for funding.

Funding Submissions



- Submissions by Oct. 1 proceeding the fiscal year (soft deadline).
- Board will approve by March 1.
- ◆ Distribution is made beginning July 1.
- Funding provided in quarterly installments (exceptions can be made if needed).

True-up Process



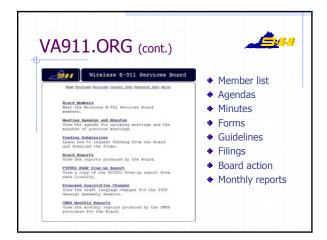
- Conducted between July and September after the end of the fiscal year (required by *Code*).
- PSAP must provide actual costs for wireless and call load data.
- Actual costs may differ from estimated so long as actual are still allowable.
- Locality may be required to return funding or may be eligible for additional funding.



Project Management



- \$32K maximum cost recovery for project management for each Phase.
 - 40 hours per month for 8 months @ 100/hour
- Full cost recovery for regional project management efforts.
 - Consultant selected by Region
 - Invoiced through DPSC
 - Five contiguous localities as minimum to form a region



Guidance to Localities



- Consider skipping Phase 0 and going straight to Phase I.
- Consider working as a region on wireless Phase I implementation.
- Select a implementation date.
- Send request letter to each wireless provider six months before implementation.
- Submit a funding request to the Wireless E-911 Services Board.

